

**Notice of Allowability**

Application No.

09/640,686

Examiner

Alpus H. Hsu

Applicant(s)

CAMPANELLA, S JOSEPH

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2665

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

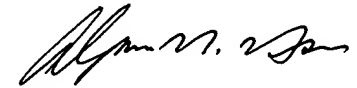
1. ☒ This communication is responsive to amendment filed 10 January 2005.2. ☒ The allowed claim(s) is/are 1-17, 21 now renumbered as 1-18 in order.3. ☒ The drawings filed on 03 May 2001 are accepted by the Examiner.4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).a) ☐ All b) ☐ Some\* c) ☐ None of the:1. ☐ Certified copies of the priority documents have been received.2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.**Attachment(s)**1. ☐ Notice of References Cited (PTO-892)2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 8/14/014. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material5. ☐ Notice of Informal Patent Application (PTO-152)6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.7. ☒ Examiner's Amendment/Comment8. ☒ Examiner's Statement of Reasons for Allowance9. ☐ Other \_\_\_\_\_.**ALPUS H. HSU  
PRIMARY EXAMINER**

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. The application has been amended as follows: This application is in condition for allowance except for the presence of claims 22-51 to Groups II-IV, which were non-elected without traverse. Accordingly, claims **22-51** have been **cancelled**.

The following is an examiner's statement of reasons for allowance:

The subject matter of the claims is allowable over the prior art of record because all prior arts fail to teach or suggest a method or an apparatus for synchronizing a selected number of time division multiplexed or TDM symbols in a TDM data stream to an equal number of the subcarriers of a time division multiplexed/multicarrier modulated or TDM-MCM symbol in a TDM-MCM waveform by: locating one of a master frame preamble (MFP) code and a distributed synchronization sequence in said TDM data stream, said TDM data stream having at least one TDM frame comprising said one of a MFP code and a distributed synchronization sequence and a plurality of said symbols, said one of a MFP code and a distributed synchronization sequence being useful to locate said TDM frame within said TDM data stream; generating an array using said symbols in said TDM frame, said array comprising a first number of columns and a second number of rows; and generating TDM-MCM symbols corresponding in number to said first number using an Inverse Fast Fourier Transform (IFFT) with said array, each of said TDM-MCM symbols having said second number of said subcarriers for respective ones

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of said TDM symbols in corresponding said rows, said first number of said TDM-MCM symbols corresponding to a TDM-MCM symbol frame.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alpus H. Hsu whose telephone number is (571)272-3146. The examiner can normally be reached on M-F (5:30-3:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D. Vu can be reached on (571)272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AHH



Alpus H. Hsu  
Primary Examiner  
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